SEPTEMBER 17, 1923 Issued Weekly

PRICE 10 CENTS



VOLUME xv

SPECIAL FEATURES

BATTLESHIPS SUNK BY ARMY BOMBERS COX-KLEMIN MODEL CK2 TRAINING PLANE OFFICIAL INAUGURATION OF BOSTON AIRPORT PROGRESS REPORT ON ST. LOUIS RACE ACTIVITIES

> THE GARDNER, MOFFAT CO., INC. HIGHLAND, N. Y. 225 FOURTH AVENUE, NEW YORK

as Second-Class Matter, Nov. 22, 1920, at the Post Office at Highland, M. Y. under Act of March 2, 1879.

NUMBER

DURABILITY THE prime factor in the design of this stand the heavy duty of bombing, torpedo and long distance flying. All vital personal are particularly moved. Hard flying at near and above rated power has thoroughly proven its durability. A generous overload caracity above rated power contrib-

utes greatly to longevity and smoothness. The wide engineering experience and ability that is so important a beritage of this organization is characteristic in this





WRIGHT CODELS

ENGINES

T-3 EATINGS T-3 SATINGS T-3

SPTEMBER 17, 1923

AVIATION

CONTENTS

Storals NP Aw Med Prints et 9t Lema 228 a Kingan Touring Place NR U.S. Arms and Navy Aur Power. U.S.

> THE CARDNER MOFEAT COMPANY Inc. Publishers HIGHLAND, N. Y.

THOMAS AMORSE A IDODAET COORDODATION

CONTRACTORS TO U.S. GOVERNMENT



AVIATION

SEPTEMBER 17, 1923

More Bombing Data THE due record to the War Department statement that

do copt practice" with the lattichers New Jersey and

have airdrager along the creat are sufficient for our six-

s louds of 28,000 feet, it will surpose us greatly

The subject of defense against already expense to be a their cars of simplant appoint simpless. The committee we Averaged does not join in the extremist cry that the buildslep has been doorsed by the beating tests. What has been

Estate F. Worse.

Air Power in the Future

R RAE ADMIRAL R H JACKSON in an address defeet "are the evaluate of the security and open excit pro-

Production Control

paid to exactness in every

needs of such work

insures the utmost in

precision, speed and

In the manufacture of airplanes in quantity. engineering detail and such as is called for in material specification. the production by this The Martin production company of thirty-eight control system is unique all-metal M01 machines in airplane manufacture. for the Navy, it is very Developed during years essential that scientific of specialized aircraft production control methods be utilized. building it has been adapted to the exacting

Not only must the time element be taken into consideration, but most careful attention must be

economy. THE GLENN L. MARTIN COMPANY

Bombs Sink Battleships Virginia and New Jersey Target Paucice Conducted by Army Air Service Shows Accuracy of Bombins from Ton Thousand Feet

The radius by sixwest bombs of the buildnesses "Commission and "New Accounts" on Engl. 5, quarters seather advisors in the final control of the control of t

attacks on the Adhards were to make these stead fights. The way is a proper of the proper of the proper of the proper service of the proper of the proper of the proper of the strong of the day of the Adhards of the proper of the day and some proper of the thinking is received everywing shows have a time to be believed to the proper of the proper of the basis or the bell and everywing the ship to a basis. The proper of the proper of the proper of the proper of the superior of the proper of the proper of the proper of the superior level one after correct public. No superior of the control of the proper of the proper of the New Adhards control of the proper of the New Adhards of the proper of the New Adhards of the Adhards and the New Adhards of the proper of the New Adhards of the Adhards and the New Adhards of the proper of the New Adhards of the Adhards and the New Adhards of the New Adhards o

meetin used in south, without group, the backgroup on it was the south of the background of the south of the

"FORWERD THOSE PERFECTION TO ANNIHAD TO.

"THE WAY Department in very delivent of visible reviews
of an investigation of neutronic transition of an investigation of the secondary of the seconda

"The officeing place of the Array Aur Service service sta-

Geo. 20, 27 Johnson, Alex Wei, B. S. Marshan, and J. M. S. Marshan, and J. M.

I is GENERAL IX, as anomany aver "Polyme of the mass of appreciate for bording places open time from a lead home."

The office there is the sill composited questions as to real and "Described the memorary and material for the services included to the defended of the properties of the Description of both affecting which will be a first the transcription of the properties of the pr September 17, 1993

A VIATION

A VIATION

These breaches were being deeped for target looking from manufaceable heights. The practice who are provided in a probable that many of these will not a compared to be for not the resulter branch as well as the probable compared to the Marian compared to the probable compared to the probabl

gifted on folds hatfordinger.

Richysteries of fold in inclinations that the near descrive the Richysteries of fold in inclinations of folds of 500°C.

Both a hooking proteins has been conducted, between, at an analysis to be provided to the conduction between folds and 1,500°C, as proceedurages integral confered for a told of the districtions of hooking against a told of the districtions of hooking against a told of the districtions of hooking against a told of the distriction of hooking against a told of the distriction of hooking against a proposed service in the folder data as yet on a solid affective abilitate from which proper sensoring yet were at a holine for plants of hooking the distriction of the distriction and the distriction of the distriction of the distriction and the distriction of the distriction and the distriction of the





- browness on 1100 h. book did to the Formin

Confluer Feeture that should be understood in encountering provides of the hopping in their it was encounted that present provides of the hopping in the contract of the provides about help completely are work at her editables agreed the mounted and such several grams of the hopping. In will be a such as the contract of the contract of the provides and the provides are the provides agreed the provides and the provides are the provides and the provides and the provides are the provides and the provides are the provides and the provides are the provides are the provides and the provides are the provides the provides the provides the provides the provides the pr



Jersey cless refern, that the making of the shape was received at

The Newy's Astrinuis

The Ney's distinct stread these beings text were circuly, shown in 1502, and has stream typicard from the commerced themselved to the stream of the

hardy somewhat we relied. The first the days we make the control of the control o

"Limitation of Areaments" Treet, it was possible to the cholete hour virgo from the Nevy Department purpose. The lost appreparation kill for the Arms, a new of money to conduct practices of the nature.





50 sec. Fundang third is the race was the organ paner painted by Level James Lyons, who made the distance as C Harris, Precision, Calleway Book, Pulsos, No. How Peter F. Rollman, Mayor of Womenter, Mayo, O S. Perier, President, Paramer Bank, Burking Green, Ma James C. Welch, President, Eitherry Bunking Co., Eitherry. of attraction, with the convenience maker after with one case

teen of visot from were given to rustain the interest of the

ATIATION

but the unconstrained vertexy of the Army planes electrated

any recently har contraining the recell

Land. Anthony Fisher, again pricing the VET from the
USS Langley, flushed second in the hore of 1 hr 19 mm.
USS Langley, flushed second in the new was the DMHR place.

land to priori delegates to the Convention of the Neffman

Progress Report on St. Louis Race Activities Large Attendance of Distinguished Guests is Assured vitation to delays the address of volume on behalf of the

Distinguished Gueste

Howard E. Coffe, Very-Pronders, Hadron Mater Cor Dr. and Provident of the Nettonal Association

Relph Palitier, of the New York Flatta.

Mat. Victorion Circian, Milliary Attacks, Special

erred. The St. Lewis Ster has ctured an actus resispancy to accura-Virtor Benghal, Mayor of Carlegille, III Virtor Househm, sun or or currantes, ill.
Morris Anderson, Mayor of Hamiltal, Mo.
Links M Unovers, Persident of the Upperm Cadillac Store

Her. Star Sorock, Military Attaché of the Conductorsh. Col Louveste L. Briggs, Commandage Offices, Ast Det. A. A. Street, Prendent, Post Nat'l Benk, Jefferson City, Ma. The Physic Cité of St. Lores Trophy, to be awarded as the The Ficting Club has sold \$21,000 of stock on the St. Leeve Speakers' Bureou

Charles F. Behlers, President, Aerometrice Astronyo, Deletel, Hor Edwa F Leonard, Mayor of Syrvaglicki, Moss. Hon. William H. D. Burmerton, Marce of New Belliows. Flying Propagando

South Revert Setherland, of West Vergrean.

Mrs C W Thomas, Mayor Jofferson City, Mo

s. If Smith, President of the New York Control Lason.

nairly has in advance of their coming. General Patrick has Dr. Weedle and Mayor Relection had the had luck to depend Hemor, they delivered their message to the

For S. Rosenblods, as the serial advance serot, flow to

Official Assumers Homed

Visiting Planes

courtous, such as you oil, and water, will be appliable

A could be stated in smoot to all priots and their friends

for landing over 80 Levin Field will be properly marked to that they can be discovered from the size. Pilets common as after

ring the meen. Admired Modett has advised the St. Louis Accounts Corp.

Hound W. Merker, 1285 William Ave., Houston, Tea Certies Oxeolo. Henry A. Berliner, 2000 Columbus Read Washington.

E. B. Ferryson, M. D., 1370 Seving Purk Blvd., Chicago Charles F. France, Moren, Mo. Standard JL. H. E. Nicon, 2007 W. Sithi Phace, Characo. Own make Wheter & Book 204 Hillin Back Baltanors, Mt. WHAE

New Entries The Ou-to-St. Louis mor has worked the following ad-

Flying Club of St. Louis Noon

was additional fame by frying the Starling Homber, holds the world's speed records for 1900, 1600, and 2000 km, made at

Copies of the "Advence Information," hooklet so the Cou-



On the corner of Mondol, Oct. 1, the Accord Accounts

course the close of the Congress. The amarking of typologic

our allowate and one addressed delegate and one after our receiving.

Each state shall be extitled to one delegate and one allow up. Each chapter and each state is entitled to sent in the ou-

The term of office of the Second of Georgeous expires with the admirrances of the National Convention. The form of

The above reduction to absolutely dependent upon 200

Cox Klemin Model CK2 Training Plane New Side-by-Side Training Plane Fitted with Whight E Engine Developed for Anny Air Service



The CK2 training plane, is one of the protest productions A tandem sent arrespondent to employed for both the print or view. The automotive are located in the center section

As hance assumes compared of ten priots of the Air Med 10 cut from the facelego on each tale of the machine. The medals or samey for rewards, so Postponeter General New decaded to send a coppe of the Arr Mail form to the unitsocal The fundam is constructed entirely of metal, steel today trut. Dale redintors are provided with shutters with one-

The warg region employed as the USAZT whose thack see ton corecit the sax of thick come cutable for the "Folder The condition can be mainly assembled as there are no

Eint Purchases Annaldo Plant

The large plant of the Assethe Co. at Turn, Italy, toother The stabilizer is adjustable when the machine is on the

Wright Aeronautical Earnings

Air Mail Planes at St. Louis

INTERNATIONAL AIR RACES

ST. LOUIS FIELD, October 1-2-3, 1923

Don't ss Them

\$13,300 CASH PRIZES \$30,000 IN GOLD AND SILVER

TROPHIES

Pulitzer Trophy Liberty Engine Builden' Trophy "On to St. Louis" Trophy

THIRD NATIONAL AERO

CONVENTION OF THE

NATIONAL AERONAUTIC ASSOCIATION
OF U. S. A.

AIR INSTITUTE
OF THE
AERONAUTICAL CHAMBER OF COMMERCE
OF AMERICA

Beautiful Electric Lighted Floats

and Pageant of the Veiled Prophet

AERONAUTICAL EXHIBITION OF SMALLEST, LARGEST, FASTEST AIRCRAFT IN THE WORLD AFRO ENGINES, PROPELLERS, ACCESSORIES

The fastest ARMY and NAVY and MAIL PLANES are

1. Suptamber 20 to 10.—"On the St Learn" for St.

Loan Charles of Com-

2. Monday, Oct 1—Two States (VO M P. et else) for Piper Clob et 20. Certime Octy 10. St. Cert

Liberty Engine Belides
Trophy
Tureday, Oct. 2—Lable Communal Handiony (200 H. P. er len)
to Austra Communications

Mil Trophy Members Juder Plying Lunger, Nahmal Arrev and Plane Plying Lunger, Nahmal Arrev and Plane for Detail News Are Mal

Wednesday, Oct. 3—High Speed Flates for Confian and Milenay 94,000
 Research of Confian and Milenay 94,000
 Meteoral by the loss Pavillets Waters G. Harding and the Securitaries of the Avery and the New

Endered by the late President Watren G. Harding and the Sounteness of the Away and the News and the News and the Positionate General, Suscitional by the National Assessment Assessment of the U. S. A. under the rules and Requestions of the F. A. I. and the Assessment Chamber of General Chamber of General Performance of the Control of the Assessment Chamber of General Chamber of C

FLYING CLUB OF ST. LOUIS

St. Louis, Mo.

Program and Entries for St. Louis Air Meet

By RANDALL FOSTER areas, Euro Country, Introductional Aur Ran

for the St. Leans Are Ment as phase will be devoted among the women at 14th, another his places or the property for all and fourth places. In the case of the place of comments are the place of comments. The published professorry pro-

Labory Motors durant the war and is competed for annually,

Name of Poles

with soft strip halfs books collain sight major event.

All more sight places appropriate (50.009)

All more will be flower over a branchest course 50 km.

CLER OF 32 LODING 2000 2000 2000 CHILLAND OR

All more will be flower over a branchest course 50 km.

CLER OF 32 LODING 2000 2000 2000 CHILLAND OR

All the grown will be formed at each trace, thus custing dover the traces stress within the course of th

reveable for insign confidence. In distance, ver jayous will spired at our birn, then ceiting down the tieness since of the points alone tranger (in single polesses as in pressure of the points alone tranger (in single polesses as in pressure or the last of ordering on the ceiting, insight polesses as in pressure. The ceiting of the single polesses are in the last of ordering ordering ordering ordering ordering ordering ordering with the last ordering ordering

NATIONAL BAMES FOR ST. LOUIS CHAMBEE
OF CHAMBEEST TANIBUT FOR CUPILLANS CONT.

TOTAL PRIZES \$1,000.

The row is designed to encourage standards at the trees.

SEE NO. 2. Members \$1,000.

SEE NO. 2.

The rice is designed to measuring standards at the rices by the size of the first the point of the size of the city during the tree days providing the instance. Concepting prices used to first from an point 200 of the city during the tree days providing the instance. Concepting prices used to first from a point 200 of the city during the first prices and the first first the city of the city during the first point of the city during the first point city and the city of the city during the first point city of the city during the city of the city

ENTRIES RECEIVED FOR EVENT TWO

True of Entrose Hale one Lype of Prime
Torton Et Co.
Cartino "Ovido" Cartino 035,00 kg.
ARREGO Et Co.
Persons "Sport" ARREGO 65 kg.

SYSTEMS SECURITED FOR EVENT THREED #### SYSTEMS SY

neiser 17, 1903 AVIATION 563

Extent No. 4. Tuesday, Oct. 2, II a. m. Associates are highling models with a decay to exter them.

of #124000 Coloryst Late, of merchanics and merchan

From the S. Turking, Oct. 2, 2, 7, in.

17 of Labour Control Production of the Control Control

holds, EdGE FOR BULLYTHILL TROPHTY, HEREEME THE ANALYSIS AND ANALYSIS LANGUAGE AND ANALYSIS AND ANALYSIS AND ANALYSIS AN

The minutes of the suity of the plane, which was the read there excepted the next per regardent states of the open control of the next per regardent states and the specific states of the next per regardent the next per regardent states and per less than the per regardent states of the term of

. . W. Malo

let Lt 7 W Blackborn
- T K Matthere
- O F. Truridlet
- R L Mendith

| West | March | West |

ENTERS EXCEIVED FOR EVENT FORM

ENTINES RECEIVED FOR EVERY ENGINE "A"
of Entrent Hale and Type of From Made and Type of Me
Thomas Man Wright 500 by

AVATOR PROMOTE IT TO STATE OF THE PROMOTE IT TO STATE OF THE PROMOTE OF THE PROMO

Here is its in the International Air Parent, Oct. 1-3—May

be madded as time to qualify under the low speed requirements of the Publisher Race.

Event No. RA. Wednesday, Oct. 2

RACE FOR ARMY AIR RESTRICT PROPERTY GROUP FOR THE MITCHEST TO AND AND THE PROPERTY GROUP FOR THE MITCHEST TO AND AND AND ADDRESS OF THE STREET, TO AND AND ADDRESS OF THE STREET, THE STREET, THE ADDRESS OF THE STREET, THE STREET

Aerodynamic Plane Table

RACA. Ruse No. 50

The the seconds and experience required recovering a model to the strengthness behavior, and for succiliary and the second second

U. S. Civil Service Examination

detail Kongower (in 81 in treating to the Burnes of a Kirky, New Yorkshiren), also not retained undergo of the New Yorkshiren, and the Control of the Control in Processing State of the Control of the Control and Orientation the control of the Control of the the deliver was to more in the contain of exposure, one and the control of the Control of the Control of the the Control of the Control of the Control of the orientation of the Control of the Interior through collection, proceeding speakers, one of the Control of the Contr

Longitudinal Oscillation of a VE7 Airplant

NACA Report for 182.

Then investigation was extracted out by Z. E. Narten.

G. Brown, Nutronal Adversory Committee for Account of the English Total is under to mission and market an possible above of our respirate when it was assuince a length of the english. The energied the thirtody that major with that it was assuince as length on the english. The energied the thirtody that major with that it was assuince as length of the english. The english of th

AIRPORTS AND AIRWAYS

This Department is conceived with all civil Sping echolites such as the entellatheness at carports, the intention of elements, to elements, the desirent, to element to element repeting all elements and elements in the elements and elements elements and elements elements and elements and the elements and elements are elements and elements and elements and elements are elements and elements and elements are elements and elements and elements are elements are

Process Process

"south of DEL State Served Chinese Syang Stells against a DEL State State

In the Comment of the

mints on viscous En approxima paint are are people on a conversion. Headers types of Editors, soon of which have astitivistic research in this country and Enrape, will be onresponding to the second of the control of the conley to Zelmod Bulstunkelers, American area as the Weyl-Wey, has effect as \$6,000 topology in full pure and where the control of the encounted. The finals will be held on Thurston, the second of the finals will be held on Thurs-

Cerman Melses New Glider Record

Islam: Merriess of Hancer on Anr. 6. attablished a

1-lines: Merriess of Hancer on Anr. 6. attablished a

1-line straightaney reveal of 12 line. 17 46 mt 1 in a selfor wanted and plane at the flowfield (degenery) glotter on
the straight of the self
plane and the self
glotter posters, were not be are 20 cm; before the wind inheliable

20 cm; before, were not be are 20 cm; before the wind inheliable

1-line and 18 cm; were not be are 20 cm; before the wind inheliable

1-line and 18 cm; were not be are 20 cm; before the wind inheliable

1-line and 18 cm; were not be are 20 cm; before the wind inheliable

1-line and 18 cm; were not be are 20 cm; before the wind inheliable

1-line and 18 cm; which is the self

Communication in the effect addressed "Alcompt Editor, Arbition, 225 Franch Are, New York City", should be brief, occurate and in the polic. They should deal with facts, not with theories or speculation. While Association with finite arbition will associate by the provincence, communication will also be redeemed from Canada, Marsim and

Basing Delivers Pervait Plans to McCook Pield
The Reemy Architect Co., of Settle, monthly faithway to the Ast Review at McCook Pield is beforeing negative agreement of the Ast Review at McCook Pield in the McCook Pield in the Control of the McCook Pield in the Control of the McCook Pield in the Control of the McCook Pield in the Astronomy of Wilson and an event lingth of 22 to 16 as McCook Pield Report of the Record Co., will common McCook Pield Report of the Record Co., will common the Record of the McCook Co., will common the McCook Pield Report of the Record Co., will common the Record of the McCook Co., will common the Record of the McCook Co., will common the McCook Pield Report of the Record Co., will common the McCook Pield Report of the Record Co., will common the McCook Pield Report of the Record Co., will common the McCook Pield Report of the Record Co., will common the McCook Pield Report of the Record Co., will common the McCook Pield Report of the Record Pield Report of the Record Pield Report of the Record Pield Record Pield P

attick employee and retiral '10 (felicity. Thus around) interest in the property of the property of the Bright Visit entered (McCode, Rufel Engineering (Wolston), and have employeed them DIMY places. Rechards Fields, and have employeed them DIMY places. Rechards Fields, Kannan City.

Richards Fields, Kannan City.

Converged artistic of Bishook Palai, Kannan City, Hardward Company, and the second of the property of the partnership of the property of the property of the partnership of the property of the property of the property of the partnership of the property of the property of the partnership of the property of the property of the property of the partnership of the property of the property of the partnership of the property of the property of the partnership of the property of the pro

outnament of soral activities at Reduceds Field German-Culaun Air Line According to Foreich prior reports, the German-Oslom and rain whall prepared to enthicks in procentage small service from Herata is Manues, Auro, Angewissa, song Achere from 18 will be remembered that two Jeakers planes of the are as then the proper from Herata to Period-Papers, Hainle

III will be renombreed that two Jetabers plans of the issue due in open from Herman to Pertu-abrance, the add these screens like Carrebone Sex to be Gangra, Younger Schiller, and these screens like Carrebone Sex to be Gangra, Younger Schiller than we head of these large, but it is one report that after long delays they resolved Head in April Tree on the Herman case caused on Indiany most Biolem (Plans while the other resolved the while lying as the street resolved in the salver resolved they also have been been considered and the salver resolved they also got endourse.

Gallaudet Daylight Bombor Revestly, the second DRI simpless structed by the Gallaudet Assemble of fight at McCold Field. This bomb with a span of 66 K. 4 as, length 5500 h. fully hashed. It as proving reserver. Excess. Hereby could be

Dutch Air Activities

Leader a Force corts since of Creader street, Leader,

Resett reports on the progress of all transport in the

The H. L. M. (Bayel Netherlands Air Transport Co.) stone

Notherinade show a very satisfactory teament in the marine

between Austroday, Berneden and London; Amsterlay, The H. Comodorn Air Peace notation the following

Curtous and emogration personnel on daty when green

Largor-Conduct Victory, Ltd., Meshwel, F. Q.

The following table shares the progress of med are toolic

Allegious Cours Fearmers Protecting Manilly and part of the later of t

Lancocc Swerry moleng no nortal cell as Fresh H. Rassell of the Curtas affice at Guiden City, L. I. Mr. Speny even men with his "Messenger" from his home in Genden City e-th his "Measurer" to ove those he wakes to coll As Others See Us "T: Posted States has, muce the Amustice, made as

An Acrial Commuter

Seigns for Beaumont Cur-The referent for the Bournoot Can are as fallows:

Natolde Gliding Flight

when in a principle structure which also note as a bandang

Fate of Japanese Aircraft Carriers erner decays. It is also reported that the ex-battle country Americans.

French Rivid Airshins Active

one-soo or fit osperits.

Italian Air Reorganization

"Molitonands" and the "Dismade," both of which are former

terransis Liter ercord the Mediterranean See from Toulen. to Almers, covering the 472 wifes distance in 8 hr The "Elevande," the former German saval applies LF2, is,

American Avietors in Central Africa.

Army Air Server on one present treat cuties are was an 1994-18, in oppositions on artist consession to Ferral Econ. topographic surveys and prological studies. The conceasures

Triple of French Toronto Plane The Levenous terpedo place, which was calabated at the

The First Aircraft Strike

The first known care of an aircraft strike account massive

French Training Plane Commetition

New Variable Incidence Plane

The Sessian Air Effect

Depatcher from Marcov assessme that the German-Ramina

U. S. ARMY AND NAVY AIR FORCES from Balloon and Ambry School, Swett Park, to 1 rates

Orders Aug. 33 First Lent. Frederick W. Evans, A.S., Capt. Charles V. Hart, M.C., Swin Characte Publish A. St.

A. A. Regiment Reviewed For Levi Edward C Linik, A.S., Iron Advancel Ph. og Seloni, Kelt Fred to Princey Flying School, Buoka Field to instruction.

ofting Field. Free Louis Melcolm N. Stewart, A.S., Swin, Air Interna-

Revenue W. Peck, A.S. reporting by letter to Chief Eng Dec, McCook Field and to C.A.S., Washington, Sire. Laret. Sathert E. Robelbert, A.S., From Bullo: and Arrhan School, Scott Park, in MrChak Park, on one tolk Recording of Ford Livel Valentine Steel Miner AR. reptrd Fred Laut, Engle T. Konnely, A.S., from South P. 14, in A St. Petrous Count Dept., Count Sons, on transport to the New York (Vt. No. 1 Six days' lowe of absence to First Lord, Japes 5. Me

Flight Through Yellowstone Park

U. S. NAVAL AVIATION Orders to Officers

pageons were used as the flegol.

Nevy Plenes at Lorian Convention

Section by 17, 1993 Greetings from the Air a corredy bands was dropped on the desk of the S.S. Le-

in the Schounder Cop Schopbare Enge. . Sp.: own-madaced congiune from the Americk Soundware. restal over and best wishes, Jack Issuan," The big Navy



The Sixth coasin of our DT's—Blackbarn "Dort" propels

Tests of ZR1's Girders

New Tornet Towing Davice

To make from a report on the subject: "The new towner Nevy Doctors Investigate Radio Steep The tenning of radio operators by the "desp" method at the Naval Au States at Personals, Fig., has progressed correlated satisfactority. The importance of this new departure from

medical officers have been assigned to study the scropiport ar the nations. The wethod used in to silash recentrys to the similants' exce

Weather Information for ZR3 nersing all service for the arrive KES derive her flight nersus differ at that susp exactly informed of every worther con-differ which he will meet on his fight from Presendadance

A source in flight fenering for Nittal Bosone Offsire has Model of the 7R1 A model of the Nava rand combay 2001 has been constructed

Oct. L/A ... Natural Aireland Races St. Lean, Ma.

Late Fall - Curton Marster Flyeng Truphy Race Sept. 23 - Goodon Bennett Balloun Rane, Brussela.

Sept 28 — Schneider Martime Aristian Temply Schneider Martime Aristian Temply Oct 14 — Bestment Cop Rage, Fring, France Dat, 1 — Extra class for Foresh Engage compe-

Reserve Officers Flight School



CLASSIFIED ADVERTISING Company of the same of the second state of the second state of the second secon

LEADY TO VIV. BE AN AVIATOR: Our wheel many you could not work every fact day School opens May 18.

rips forth, and participate as technical Oct 18th A B BEST freezes and pigs of leading field will be rapied on request from it. McGPice Charless, Entre. Abbases

THE LAWRENCE SPERKY AIRCRAFT CO. do you know that

Engrenering Production and Flora-

Englosy and Flying Field

Farmingdale, Long Island, N. Y.

is the only American aeronautical treehly and

New York

the added accountried publication in America

Naval Observers at Bombine Exercises

Bureau of Aeronautics Two Years Old.

CUSTINS FILLS, GARRIEN CITY, LONG ISLAND
KENN WORTH FIELD, BETPALO, N. T.
FLYDN, STATES ALLANIES CITY B. J. CURTISS AEROPLANE & MOTOR CORPORATION ROWE FLIERS You menor industrial properties for From Gooded work. DAYTON, OHIO Deptire Hargers Days and Field a Mile tree Dayset State JOHNSON ASSPLANT & SUPPLY CO. FLYING SCHOOL

WHITE BEAR LAKE, MINN.

ROBERTSON AIRCRAFT CORPORATION

ANDLEM MO LEARN ON AVEO and DIM

THE CHAMPERLY AMERICAL CO. New York Ast Torontol Homester Mrs. Mars Johns

AVER IN COLUMN TO AVER AND AND DESCRIPTION OF AN

he brown, 1297 Guned St., Washington, D. C.

CANADA 95 00 . PORTICE SAME 225 Fourth Ave.

INDEX TO ADVERTISERS

patent and pending patent applications issued to or owned or filed by

Stern Append Co., The Lawrence 500

Skywriting is operated exclusively in the United States by

SKYWRITING CORPORATION

OF AMERICA who have rerchased all LLS letters

Major I. C. Savage

EVERYONE WILL WANT EXTRA COPIES Four Special St. Louis Numbers of AVIATION

OCTORER 1 - 8 - 15 - 22 INTERNATIONAL AIR RACES AND AERO CONGRESS

AT 5Y LOUIS, OCTOBER 1 - 2 - 3

there special Delives means were declared to contain the soul timely, accounting and occursic accounts of the This year the ST LOUIS mass will be as even greater dountd. You are therefore sepiral to order new year even of the SPECIAL ST LOUIS MEET NUMBERS of October 1 - 8 - 15 and 22.

If you are not a courter read in your subscripture order at once to insure receiving the SPECIAL ST LOCATE MEET NUMBERS For convenience you may use the coupon below.

Outline of Special Irrusa

Anneuroement Number, Ortober 1

Roce Neurs Number, October 8

225 4th Ave., New York

You may set us or advocation to ANIATION beganning with the Grobes 1, 1923 annu. Boughaste of \$6 in

Air Distance Recorder MONTED INSTRUMENT COMPANY WARRESTON PARTS GAR PROPERTY AND ADDRESS OF THE PARTY NAMED IN COLUMN TO T

WRITE FOR OUR SPECIAL PRICE LIST ANUCK, JN., AVRO AND OX-5 PARTS CRICSON AIRCRAFT CIMITED

LUDINGTON EXHIBITION COMPANY

Date \$1 willen. Metric Smark Phys., Nov., 5.25. Shock Mater, Fine candition, and \$100 Indivendent \$2 Complete Ships Ready in Fly. Exerciting for Ameralt.

FDWARD P WARNED

BUREAUX OR LINEARY MOVING.

BUREAUX OR LINEARY MOVING.

Date of the Control of th PACKEY AIRCRAFT CO.

ONE DOLLAR For beautiful pair of steriors silver wines mounted on a slick pin, or on her pla with safety catch. Clip this and and mail to us with name and address. Pay the nesteron. Wallace Assa Co. December 1:

SIMPLICITY is an explain in sind, for the common supersion of much of feeders is a distingue; such individual school angles; lawshits bank to glossop — Specify complex complexities and larges as THE PETREI HUFF DALAND ATRO CORPORATION

Canucks-Ayros-DeHs-Flying Box is Shops and Parts in Stock

JAMES LEVY AIRCRAFT COMPANY MATTHEW R SELLEDS Consulting Aeronautical Engineer

Ardslev-on-Hudson, N. Y. FOREIGN AIRPLANE ENGINES oto Buss

PARAGON PROPELLERS American Propeller & Mfo. Co.

Deure. Construction and Production Problems AERONAUTICAL PHOTOGRAPHS FOR SALE Those derives photographs of any phase of grinties in GARDNER-MOFFAT CO., Inc. 225 Fourth Ave., New York

Text Book of Aeronautical Engineering In two parts-309 Peres-146 Illustrations

Chamberles of Man Jun by Modern Abylane, Descried Land Pursuit Medicar, Land Our Corrying Machine, Twin England Engens and Relation Date
Manuschi in Airplany Communica
Where Dynamic Loads: Factors of Salery
Professions Dates of Societary Training Machine Type Standar of Scientisty Training Machine Second Principles of Set Design Frankers and Companion Marin of Airplant Evens

Price Postpaid in the United States: \$5.00 Not other Councils: \$5.25 Pastpaid

You Need These Aeronautical Books

Airplane Engine Encyclopedia IN GLENN D. ANGLE - \$7.50 Text Book of Aeronautical Engineering er Lieut, A. Klemin - \$5.00 m U. S.

Aeronautical Rule Benk Who's Who in Am. Aeronautics Sent tout paid upon receipt of check or

Aircraft Year Book for 1923 10 cents each Plus Postage 200 repies or over 5 cents each " "

> Acreplane, (English) part, or brown, 1210, pr borne, First, 1212 or more rath, or beauty spring a massi-Action Age, 1212, a moret, raid, as become rate, as

Aircraft Magazine

Files For Sale The following lat of back members of execute pages

in everythic to across without to secure sammageal

information covering the past few years, both in the United States and absend. These course are in

bischar by removing advertising pages. The original

THE GARDNER, MOFFAT COMPANY, Inc. 225 Fourth Avenue New York





Graduate Pilots and Machines Presented to them with Flying Course, Curtiss Flying School, Garden City, N. Y.

EQUIPPED AND READY TO FLY

Here they are—six men who have just finished their course at the Curtiss Flying School, with the machines presented to them upon their graduation. Each one knows his plane—conditioning and assembling it, and installing the motor each one procured for himself at nominal cost, was part of the required work.

How different from the early days! Then, learning to fly meant five thousand dollars—and another five for a ship. Even since the war, though the cost of instruction has been greatly decreased, the price of the plane itself has still been beyond reach of the majority. It remains for the Curtiss Exhibition Company to offer to men interested in aviation, for aport or for business, a combination of instruction, plus equipment, at a price within the means of almost anyone.

Five Hundred Dollars for Instruction and Plane Less Motor

For details as to terms, curriculum, enrollment dates, etc.,
Write for Flying School Booklet

CURTISS EXHIBITION COMPANY

GARDEN CITY, NEW YORK,

